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106639c Hydrophilic polyurethane. Hara, Kazuo; Yoshitake, Toshihiko (Kuraray Co., Ltd.) Japan. 74 11,757 (Cl. C 08g, D 06n), 19 Mar 1974, Appl. 70 116,319, 21 Dec 1970; 5 pp. Hydrophilic polyurethanes with good mech. properties are prepd. by treating polyurethane, prepd. from polyethylene glycol, an unsatd. diol, and aliph. polyester (or a polyether type diol), and an org. diisocyanate, with a low. mol. wt. org. compd. having thiol and carboxyl groups, and subsequent reaction with a salt, hydroxide, or alkoxide of Group I, II, or III metal. Thus, a mixt. of polyethylene glycol 100, an aliph. polyester type diol 37, diphenylmethane 4,4'-diisocyanate 23, and DMF 60.0 parts was heated 10hr at 80° to give a polyurethane soln., which (200 parts, 25% concn.) was treated 5 hr at 80° with 20 parts *thioglycolic acid* [68-11-1] and 0.2 part lauroyl peroxide to give a polyurethane soln. contg. 2.59% S. The S-contg. polyurethane soln. was coated on a glass plate to give a 0.10-mm-thick film, and the dried film was treated with an aq. soln. contg. 20% *zinc acetate* [557-34-6] to give a hydrophilic polyurethane film with tensile strength 1.25 kg/mm² and moisture permeability 2500 g/m²/24 hr for 10 μ thickness.